

GenCore version 5.1.4.p5_4578
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OM protein - protein search, using sw model

Run on: April 26, 2003, 12:57:35 : Search time 19 Seconds

(without alignments)
1289.963 Million cell updates/sec

Title: US-10-027-000-2

Perfect score: 4391

Sequence: 1 MADIDVEALIKKFLAEKVD.....DGVALLRKFYGETYWMNSGV 833

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents_AA:*
1: /cgn2_6/pdata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/pdata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/pdata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/pdata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/pdata/1/1aa/PCIOS.COMB.pep:*
6: /cgn2_6/pdata/1/1aa/Dackfilest1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	969	22.1	769	3	US-09-320-878-12
2	953	21.7	721	4	US-09-134-078-19
3	951.5	21.7	3782	4	US-09-105-537-4
4	944.5	21.5	809	4	US-09-105-537-24
5	860	19.6	735	4	US-09-147-236-7
6	731.5	16.7	744	2	US-08-462-080B-2
7	731.5	16.7	744	3	US-08-462-090-2
8	731.5	16.7	744	3	US-08-463-461-2
9	433.5	9.9	804	4	US-08-981-446B-3
10	132.5	3.0	328	1	US-08-386-727-6
11	132.5	3.0	328	2	US-08-600-452A-6
12	128.5	2.9	2032	4	US-09-071-035-458
13	128.5	2.9	2032	4	US-09-071-035-462
14	128.5	2.9	2032	4	US-09-071-035-466
15	122.5	2.8	737	4	US-09-071-035-460
16	121.5	2.8	2647	2	US-08-583-562B-8
17	121.5	2.8	2647	2	US-08-779-113-8
18	121	2.8	2353	4	US-09-377-155-33
19	121	2.8	2353	4	US-08-913-942-4
20	121	2.8	2353	4	US-09-669-974-33
21	121	2.8	2411	4	US-09-268-347-36
22	118.5	2.7	599	1	US-08-172-331B-4
23	118.5	2.7	599	2	US-09-032-315-6
24	118.5	2.7	599	2	US-08-993-318A-6
25	118.5	2.7	599	4	US-09-399-886-6
26	118.5	2.7	599	4	US-09-396-260-6
27	118.5	2.7	599	4	US-09-576-281-6

28	115	2.6	1938	4	US-09-514-302-2	Sequence 2, Appl
29	113.5	2.6	833	4	US-09-514-302-3	Sequence 3, Appl
30	113.5	2.6	2354	4	US-09-268-347-47	Sequence 47, Appl
31	111.5	2.5	1394	4	US-08-296-791-2	Sequence 2, Appl
32	111.5	2.5	1394	5	PCT-US95-10661A-2	Sequence 2, Appl
33	109.5	2.5	540	1	US-08-367-227-2	Sequence 2, Appl
34	108.5	2.5	1912	1	US-08-409-995-4	Sequence 4, Appl
35	108.5	2.5	1912	3	US-08-685-467-4	Sequence 4, Appl
36	107.5	2.4	521	4	US-08-952-365-4	Sequence 4, Appl
37	107	2.4	928	4	US-09-514-599-4	Sequence 4, Appl
38	106.5	2.4	1751	4	US-08-136-574A-44	Sequence 44, Appl
39	104.5	2.4	937	4	US-09-397-885-5	Sequence 5, Appl
40	104.5	2.4	1037	4	US-09-134-001C-4794	Sequence 4794, Ap
41	103.5	2.4	540	4	US-08-952-365-6	Sequence 6, Appl
42	103	2.3	928	1	US-08-474-140-11	Sequence 11, Appl
43	103	2.3	928	1	US-08-477-630-11	Sequence 11, Appl
44	103	2.3	928	1	US-08-472-293-11	Sequence 11, Appl
45	103	2.3	928	1	US-08-474-545-11	Sequence 11, Appl

ALIGNMENTS

```
RESULT 1
US-09-320-878-12
: Sequence 12, Application US/09320878A
: Patent No. 6117659
: GENERAL INFORMATION:
: APPLICANT: ASHLEY, Gary
: APPLICANT: BETLACH, Melanie C.
: APPLICANT: BETLACH, Mary C.
: APPLICANT: MCDANIEL, Robert
: APPLICANT: TANG, Li
: TITLE OF INVENTION: RECOMBINANT NARBONOLIDE POLYKETIDE SYNTHASE
: FILE REFERENCE: 300622002120
: CURRENT FILING DATE: US/09/320, 878A
: EARLIER APPLICATION NUMBER: CIP OF 09/141,908
: EARLIER FILING DATE: 1998-08-28
: EARLIER APPLICATION NUMBER: CIP OF 09/073,538
: EARLIER FILING DATE: 1998-05-06
: EARLIER APPLICATION NUMBER: CIP OF 08/846,247
: EARLIER FILING DATE: 1997-04-30
: EARLIER APPLICATION NUMBER: 60/119,139
: EARLIER FILING DATE: 1999-02-08
: EARLIER APPLICATION NUMBER: 60/100,880
: EARLIER FILING DATE: 1998-09-22
: EARLIER APPLICATION NUMBER: 60/087,080
: EARLIER FILING DATE: 1998-05-28
: NUMBER OF SEQ ID NOS: 34
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 12
: LENGTH: 769
: TYPE: PRT
: ORGANISM: Streptomyces venezuelae
US-09-320-878-12

Query Match      22.1%, Score 969; DB 3; Length 769;
Best Local Similarity 32.6%; Pred. No. 1.4e-86;
Matches 277; Conservative 112; Mismatches 340; Indels 120; Gaps 25;

OY 13 LFLAEKVDLLAGIDFW-----HTKALPKHGVPISLRTDNGVYRGTFKFGVPA 62
DB 1 MLTDEKISFV-----HWALDDPDRONGVYJGVYRLGIPETLRADGPNGR---LWGGTAT 52
OY 63 CFPQGSLSGTSTNOTLLEBAGKMGKREAIKSAHILGPTIMMORSPLGGFSGIDP 122
DB 53 ALPAPVALASTYDDTWADSYGKVGKRGDRALQMDVGMNNITVPYGRNTEFESDP 112
OY 123 FLAGLGAALINGIOSTGVQATIKHFLCNDQEDRBMVQOSTYTERALREIYALPQIAVR 182
DB 113 LVSSRTAVAQINGIOGAGLMTAKHFAANNQENNFVSVANVDEQTLIEIFEPARE-ASS 171
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[illegible]

Db 344 GLLATPAPRPE---RDKAGAAVSRKVAENGAVILLRNEGOALPLADGAKSIAVIGPTA 400
 QY 341 KQATYHGGGSAALRAYATYTPDGLSKQETPPSTVGAATVTPILBQCLTPDGAAGM 400
 Db 401 VDKRYTGLGSAHYVPPDSPAAPLDTTKAR-----AGAGATVETETEETFGTQIPAGN 452
 QY 401 RWEVNEPPTGPNRQHIDELFTKTDMLVDYHHPKADTYWADMEGTYYTDEDCYTLG 460
 Db 453 LSPAFNQG-----HGLE---FGKAGALY---DGLITPAPAGEYRIA 487
 QY 461 LVVCGTAKAYVDQLVVDNATKQVGDAPFGSATREETGRINLVKNTYKKEIEGSAPT 520
 Db 488 VRAATG---GTAIVOL---GSHITAGQVYKVS---SPLLKLTFG-THKL----- 527
 QY 521 YTLKGDITVPHGSLRVGCGKVIIDQAEITEKESVALAKHEDDVITICAGINAMWETEGADRA 580
 Db 528 -TISGFAMGATPLSLELGWTVTAADATITAKAVESAKARARAVFA---YDGTGEGVDRP 583
 QY 581 SKMLPVLQDLIADVAANPNTVVVMOGTPEEMFMDATPAVIOAWYGNENGTNSIADV 640
 Db 584 NLSLPGTQDKLISAVADANPNTIIVLNTGSSVLMFMLSCTRVLDMWYPGQAGAEATAAL 643
 QY 641 VEGDVPNSGKLSLSPFKRLQDNPAPLNFRTGAG-----RTLYGEDVYVYKRYEF 690
 Db 644 LYGDVNPSSGKLTQSF-----PAENQHAAYAGDEPTSPGVNDQOTYREGIHGVRWFDK 696
 QY 691 ADKDVNPPFGHGLSYTTFEAFSNLSVSH-KDGKLSVLSVKNTGSSVPAQVAYOLYKFLQA 749
 Db 697 ENWKPLFFPFGHGLSYTSTQSAFVVRTSTGKLKVTYVNRSGKRAQOEYVQATLGASPN 756
 QY 750 AKINPVELKGFARVELQPGETKAVYTEOEKTYAAVFDDEERDQMCVERGDEVYIYSDS 809
 Db 751 VTAPOAKKLVGYTVKVSIAAGEAKTVTVN-----DRQLQATGS 795
 QY 810 SAKKDVALRGKFTV 824
 Db 796 SSAD---LRGSATV 806
 RESULT 5
 US-09-147-236-7
 ; Sequence 7, Application US/09147236A
 ; Patent No. 6316251
 ; GENERAL INFORMATION:
 ; APPLICANT: TONOUCHI, Naoto
 ; APPLICANT: TSUCHIDA, Takayasu
 ; APPLICANT: YOSHINAGA, Fumihito
 ; APPLICANT: TAHARA, Naoki
 ; APPLICANT: HAYASHI, Takahisa
 ; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
 ; FILE REFERENCE: 6537-011-00CT
 ; CURRENT APPLICATION NUMBER: US/09/147,236A
 ; EARLIER FILING DATE: 1999-04-08
 ; EARLIER APPLICATION NUMBER: PCT/JP97/03633
 ; NUMBER OF SEQ ID NOS: 12
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 7
 ; LENGTH: 735
 ; TYPE: PRT
 ; ORGANISM: Acetobacter xylinum
 ; FEATURE:
 ; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, t, or
 ; OTHER INFORMATION: c
 US-09-147-236-7
 Query Match 19.6%; Score 860; DB 4; Length 735;
 Best Local Similarity 28.3%; Pred. No. 7.9e-76;
 Matches 241; Conservative 125; Mismatches 277; Indels 210; Gaps 22;

QY 2 ADDIVKLLKLTAKVLLAGID-----FWHTKALPKHGVPSLRFTD 45
 Db 37 ADARAROVLA SMSLEDKMSLFSVDDGGFNGSVAPPGGLGSAAYLRARPOGSLPDLQISD 96

QY 46 GPNVGKTRFF--NGVPACFPQSTSLGTFNQTLLEBAGKMKMGKEAIKASAHYILGPTI 103
 Db 97 AGLGVRNPAHIRNG-EAVSLPSGOSTASTMDMARAGVWIGREAMQSFNILLGGA 155
 QY 104 NMQRSLPGLGRGREGISEDPLFGLCAALIRCIQSTVOATIKHFLCNDQDRRMVQSI 163
 Db 156 DLTRDRGRGRNEFYAGEDPLQTRMVVGSTIAGVQSOHVISTLKHYAMNDLETSHTMSAD 215
 QY 164 VTERALREIYALPEQIAVDSQGAFTAYNGINVCSSCEPKYLDGLKREKMDLLIM 223
 Db 216 IDPVAMRESDDLGFETALETHPGAVKSYNRVNDLYACENPYLTLTKQDMHYPGFVM 275
 QY 224 SMYGTSTTEVAVAGLDLEMPG---PRFGETLKFNYSNCK-PFIHYIDQAREVL 277
 Db 276 SDMGATSSSARAALAGLDQESAGDHTDARPYFR-TLLADVDYKAGRVPEARINDMAER--- 331
 QY 278 QFVKCAAGVTEN-----GPEYVNNPEETAALLRKVGNESIVLLKMNVLPLSKKKT 333
 Db 332 -VVRALFAAGLVDRHQAQGPLDYVTDI---LVAKQDEBSAVLLRNQGNILPLSPART 386
 QY 334 LVGPNKQATYHGGGSAALRAYAVTPFDGLSKQETPPSYTVGATVTPILBQCLT 393
 Db 387 AVIGGHADAGVLSGGG-----SQVDPIGGE--- 412
 QY 394 PDGAPGMWRVFNERPPTPNRQHIDELFTYKTDMLVDYTHPKAADTYWADMEGTYYTAD 453
 Db 413 ----- 412
 QY 454 DCTYELGLVCGTAKAYVDQLVVDNATKQVGDAPFGSATREBTGRINLVKNTYKFKFI 513
 Db 413 -----AVKGPCK-----KEWPDPVY----- 428
 QY 514 EFGSAPYTLKGDITVPHGSLRVGCGKVIIDQAEIEKSVALAKHEDDVITICAGLNADWE 573
 Db 429 -FPSSPLKAMQAE--APG--ARI---TYDPGTSIASAVRARADVVVYA---TQET 475
 QY 574 TEGADRASMKLPGLVDLIADVAANPNTVVVMOGTPEEMFMDATPAVIOAWYGNENGT 633
 Db 476 FEGMDAPSMHLDNADALITRAVAANPNTVYMETGDPVLMPNSSVAGVLEAMFPGSG 535
 QY 634 GNSIADVYFGDYNPSGKLSLSPFR-----LDNPAFLNFRTGATLYGEDV 681
 Db 536 GPALIRLLEFGKVAAPSGLHMTFPOAESQLAHPDIAGVADNVPEMQFHTDQ-ELVYDESS 594
 QY 682 YVGRYEFPADKQVNPFGHGLSYTTFEAFSNLSVSHKDKLSVSVKNTGSSVPAQVAYQ 741
 Db 595 DVGTRWFDRNHFKLYFPFGIGLYTTFTSDGLKVTERRHQVATFENVHNTGTRAGDVQO 654
 QY 742 LVKPLQAAKINRVEKELGFARVELQPGETKAVYTEOEKTYAAVFDDEERDQMCVERG 801
 Db 655 VYV-----GLPDGGRARLQAGMORISLAPGESRQVSV-QLEPRLAHFQDKHDMRVSPT 708
 QY 802 KEVIVSDSSAKD 814
 Db 709 FRWVL--ASCATD 719

RESULT 6
 US-08-462-080B-2
 ; Sequence 2, Application US/08462080B
 ; Patent No. 5997913
 ; GENERAL INFORMATION:
 ; APPLICANT: Fowler, Timothy
 ; APPLICANT: Barnett, Christopher C.
 ; APPLICANT: Shoemaker, Sharon
 ; TITLE OF INVENTION: Saccharification of Cellulose by Cloning and
 ; TITLE OF INVENTION: Amplification of the Beta-glucosidase Gene of Trichoderma R
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Genencor International, Inc.
 ; STREET: 925 Page Mill Road
 ; CITY: Palo Alto

STATE: Ca
COUNTRY: U.S.A.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,080B
FILING DATE: 05-JUN-1995
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/248,586
FILING DATE: 24-MAY-1994
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/807,028
FILING DATE: 10-DEC-1991
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 07/625,140
FILING DATE: 10-DEC-1990
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Stone, Christopher L.
REGISTRATION NUMBER: 35,696
REFERENCE/DOCKET NUMBER: GC78D3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-846-7555
TELEFAX: 650-845-6504
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 744 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-462-080B-2

Query Match 16.7%; Score 731.5; DB 2; Length 744;
Best Local Similarity 27.5%; Pred. No. 4,4e-63;
Matches 234; Conservative 123; Mismatches 282; Indels 211; Gaps 31;

QY 7 EALTKLTLLAEKVDLAGIDFW-----HTKALPKHGVPSLRFDTGPRGVR---GTFE 55
DB 48 KALAKLNILODKVIGSVG-WMGGPCVGNTPSPASRISYPSLCLDQGLGVRSTGSGTA 106
QY 56 FNGVPACFPCTSLSTFNTQILLEBAGKMGKEALAKSAHVILGPTIN-MORSPLGGRG 114
DB 107 TPGVQA-----STMDVNLIRRGQFIGEYKASGIHVILGVPAPLGKTPGCGRN 157
QY 115 FESIGEDPFLAGLAALIRGISTGVQATIKHFLCNDQDERRRMVQSVTERALREIYA 174
DB 158 WEFEGVDPYLTGTGAMQITINGISVGVQATAKHYILNEQELNRETTISSNPDRTLHELT 217
QY 175 LRPQIVRSGQPGAFMTAVNGINGVSCSEPKYLDGMLRKEMGMDLINSMDWGTGSTTE 234
DB 218 WPRADAVQ-ANVASVMSCTINKVTTWACEQYTLQTLVDQJGEPYVWTMDMAQHTTVO 276
QY 235 AVVAGIDLEMPGP-----RFRGETLKFNV-SNGKPEFHVHIDQRAREVLOFQCAASCV 288
DB 277 SANSGLDMSPGTDFNGNNRLMGPALTNVNSQVTSRVDN---VRIILAAWLTQ 332
QY 289 TENG-PETVYNNTP--TAAALKRVQNEGIVILKNNNVLPSSKKKTLIVGNNAKOAY 345
DB 333 DQAGYSEFNISRNVGNHKTNTVAIKARDGIVILKNDANTLLPKKPSIAVV----- 383
QY 346 HGGGSALRAYVAVTPDGLSKQLFPPSYVGAATYTPPIIGEO-CLPPDGAPEGKRWY 404
DB 384 ----GSAAI-----IGNHARNSPSCNDKCC--DDGALGSGW--- 413
QY 405 FNEPPTGNROHIDELFTKTDMLVYVYHPRKADWTYADMEGTYTADBDCTEYELGLVVC 464

DB 414 ---GSGAVNPPY-----FVAPYDAINIRASSQGT----- 439
QY 465 GTAKAYVDQLVONATKQVPGDAFFGSATREENGRIINLVGNKTKIERGSAPTYTLK 524
DB 440 -----QVTLSTNDTSSG---ASAANGKQVAIVFTIADS----- 470
QY 525 GDTIYVGHGSLRVGCKVIDDOAEIEKSVALAKEHDQVITICAGINADWETEGAPRASKL 584
DB 471 -----GEGYITVES--NAGDRNND-----PWHNGNA----- 495
QY 565 PGLVDQLIADVAANPNTVVMQGTGP---EEMPMIATPRAVIAQVAGNFTGSIADYV 641
DB 496 -----LVQAVAGANSNVIYVHVSAGAILLEOIIIALPVKRAVWVAGJPSQSGNALVDVL 549
QY 642 FGDVNPCKLSLSPFKRLQDNPAPLNFPR-TEAGRTLVGEDVYVGRYRFEADKQVNPPEG 700
DB 550 WGDVSPSKLYYTTAK-----SPNDYNTNIVSGSDSFSEGLEIDKHKDCANITPRYEF 605
QY 701 HGLSYTTFAPSNLSY--SHKDGK-----LSVSLSVKNTGSGVGAQVYQ 741
DB 606 YGLSTYKFNYSRLSVLSTAKSGPATGAVVPGPSDLPQNVATVYDIANSQVYJAEVYQ 665
QY 742 LYVK-PLQAKINRPVKELGPAKAYELOPGETKAVTIEQEKYVAAVFERDQCYEKG 800
DB 666 LYTYPSAPR--TPPKQIRGFAKILNTPGSGTATFNIERRDL-SYWDTPSQWVVP 722
QY 801 DYEIVSDSS 810
DB 723 SFGISVASS 732

RESULT 7
US-08-462-090-2
Sequence 2, Application US/08462090
Patent No. 6022725
GENERAL INFORMATION:
APPLICANT: Fowler, Timothy
APPLICANT: Barnett, Christopher C.
APPLICANT: Shoemaker, Sharon
TITLE OF INVENTION: Saccharification of Cellulose by Cloning
TITLE OF INVENTION: and Amplification of the Beta-glucosidase Gene of
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Burns, Doane, Swecker & Mathis
STREET: George Mason Building, 699 Prince St.
CITY: Alexandria
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,090
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/625,140
FILING DATE: 10-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Dillahunty, T. Gene
REGISTRATION NUMBER: 25,423
REFERENCE/DOCKET NUMBER: 010055-056
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-7400
TELEFAX: 415-854-8275
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 744 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-462-090-2

Query Match 16.7%; Score 731.5; DB 3; Length 744;
Best Local Similarity 27.5%; Pred. No. 4.4e-63;
Matches 234; Conservative 123; Mismatches 282; Indels 211; Gaps 31;

7 EAILKLTAEKVLLAGIDFW-----HTKALPKHGVPSLRTDGPNGVR---GTRF 55
48 KALAKLNLQDKVGLVSVGV-WNGPCVGNTPSPAKISYPSLCLODPLGVRYSTGTA 106
56 FNGVPACPCPGTSLGSTEINQLLLEBAGKMKKEALSAHVILGPTIN-MORSP 114
107 TPGVQA-----STWDVNLIRERGFIEGVKASGIVHILGPVAGPLKCTGCGRN 157
115 FESIGEDPFLAGLAALIRIGIOSTGVQATIKHELCNDQEDRRMVOSIVTERALREIYA 174
158 WEGFVDPYLITGLIAMQTINGIOISGVQATAKHYILNEDELNRETISSNPDRTLHEL 217
175 LPFOIAVRDSQPAFMAYANGINGVSCSENPXYLDGMLRKEMWMDGLIMSDWYGTSTTE 234
218 WPFADAVQ-ANVASVMSYKNTWNTWACEDQYTLQTLKDLGFPGYVTDMAOHTTVQ 276
235 AVVAGLDEMPGP-----RFRGETLKENV-SNGKPFIVIDQAREVILQEPYKKAAGSV 288
277 SANSGLDMSMPTGFDFNGNRLMGPALTNVNSNOVPTSRVDM---VTRILAAWYLTGQ 332
289 TENG-PETVNNTPPE--TAALLRKVNEGIVLLKNNENVLPSSKKKTLIVGNPAKQATY 345
333 DQAGYSPFNISRNVGNHNTNRAIARDGIVLLKNDANILPLKKPASIAV----- 383
346 HGGSAALRAVYAVTPEDLSKOLETPPSYTGAVTVPILGEO-CLTPDGA 404
384 ---GSAAI-----IGNHARNSPSCNDKGC--DDGALGMW-- 413
405 FNEPPTPRKHIDELFTKTDMLVDYHPRKAOTWADMGCTYTADECTYELGLVYC 464
414 ---GSAVAVPY-----FVAPYDAINTFRASSQGT----- 439
465 GTAKAVDQDLVDNATKQPGDAFFGSAATRETRINLVKNTYFKKIEGSAFTYTLK 524
440 ---QVTLNNDNTSSG---ASAARKDAIVYITADS----- 470
525 GPTVPGHSLRVGCKVIDDOAEIEKSYALAKHEHDQYITCAGLNADMETEGADRASKL 584
471 ---GEGYITVEG--NAGDRNNLD-----PMHNGNA----- 495
585 PGVLQDLIDVAANPNYVVMOTGPR---EEMPWLDATPAYIOAMYGNGENGTSIADY 641
496 ---LVAOVAGANSNVIVVHVSAGAILLEQILALPOVKAVVMAGLDSQESGNALVDL 549
642 FGDYNPSGKLSLSPKRLDNPALNFR-TEAGRTLYGEDVYVGYRYEFAADKDVNPF 700
550 WEDVSPSKGLVYTIK---SPNDYNTRIVSGSGSFSGLFIDVKKHDDANITPRYREG 605
701 HGLISTTFAFSLV--SHKDGK-----LSVLSVKNKTSVPGAQVQ 741
606 YGLSTYKFNYSRLSYLSTAKSGPATGAVVPGSPDLFQVNAVIVTIDANSQGYTGA 665
742 LVVK-PLQAKINRPYKELKFAKVELDQGETKATVIEQEKVYAAVDEEDQCYEKG 800
666 LVITYPSSAPR--TPPKOLRGFAKLNLTPGSGATFNIARRDL-SYWDTSASQK 722
801 DREVIYSDSS 810
723 SFGISYGA 732

RESULT 8
US-08-463-461-2
Sequence 2, Application US/08463461
Patent No. 6103464

GENERAL INFORMATION:

APPLICANT: Fowler, Timothy
APPLICANT: Barnett, Christopher C.
APPLICANT: Shoemaker, Sharon
TITLE OF INVENTION: Saccharification of Cellulose by Cloning
TITLE OF INVENTION: and Amplification of the Beta-glucosidase Gene of
TITLE OF INVENTION: Trichoderma Reesel
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genencor International, Inc.
STREET: 925 Page Mill Road
City: Palo Alto
STATE: California
COUNTRY: U.S.A.
ZIP: 94304-1013
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,461
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Christopher L. Stone
REGISTRATION NUMBER: 35,696
REFERENCE/DOCKET NUMBER: GC78D4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-846-7555
TELEFAX: 415-845-6504
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 744 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-463-461-2

Query Match 16.7%; Score 731.5; DB 3; Length 744;
Best Local Similarity 27.5%; Pred. No. 4.4e-63;
Matches 234; Conservative 123; Mismatches 282; Indels 211; Gaps 31;

7 EAILKLTAEKVLLAGIDFW-----HTKALPKHGVPSLRTDGPNGVR---GTRF 55
48 KALAKLNLQDKVGLVSVGV-WNGPCVGNTPSPAKISYPSLCLODPLGVRYSTGTA 106
56 FNGVPACPCPGTSLGSTEINQLLLEBAGKMKKEALSAHVILGPTIN-MORSP 114
107 TPGVQA-----STWDVNLIRERGFIEGVKASGIVHILGPVAGPLKCTGCGRN 157
115 FESIGEDPFLAGLAALIRIGIOSTGVQATIKHELCNDQEDRRMVOSIVTERALREIYA 174
158 WEGFVDPYLITGLIAMQTINGIOISGVQATAKHYILNEDELNRETISSNPDRTLHEL 217
175 LPFOIAVRDSQPAFMAYANGINGVSCSENPXYLDGMLRKEMWMDGLIMSDWYGTSTTE 234
218 WPFADAVQ-ANVASVMSYKNTWNTWACEDQYTLQTLKDLGFPGYVTDMAOHTTVQ 276
235 AVVAGLDEMPGP-----RFRGETLKENV-SNGKPFIVIDQAREVILQEPYKKAAGSV 288
277 SANSGLDMSMPTGFDFNGNRLMGPALTNVNSNOVPTSRVDM---VTRILAAWYLTGQ 332
289 TENG-PETVNNTPPE--TAALLRKVNEGIVLLKNNENVLPSSKKKTLIVGNPAKQATY 345
333 DQAGYSPFNISRNVGNHNTNRAIARDGIVLLKNDANILPLKKPASIAV----- 383
346 HGGSAALRAVYAVTPEDLSKOLETPPSYTGAVTVPILGEO-CLTPDGA 404
384 ---GSAAI-----IGNHARNSPSCNDKGC--DDGALGMW-- 413
405 FNEPPTPRKHIDELFTKTDMLVDYHPRKAOTWADMGCTYTADECTYELGLVYC 464

Db 414 -GSGAVNPP-----FVAPYDAINTRASOGT-----439
 QY 465 GTAKAAVDDQLVVDNATKOVPGDAFGSATRETGIRINVKNTKFKIEGSAFTYTLK 524
 Db 440 -----QVTLSDNDNTSSG-----ASARGDAVAIVTTADS-----470
 QY 525 GDTIVPGHSLRYGGCKVIDDOAEIKESVALAKEHDQVILICAGLNADWETEGADRASKML 584
 Db 471 -----GEGTIYVEG--MAGDRNNLD-----PMHNGNA-----495
 QY 585 PGVLDLIADVAANPTVVVMOTGP--EEMPMIDATPAYIOAGYENEGNSIADV 641
 Db 496 -----LVQAVAGANSVIVVHVSVCALILEQILALPOYKAAVWAGLPSQESGNALVDYL 549
 QY 642 FGYNPGSGKLSLFPKRLQONPAFLNFR--TEAGRTLYGEDVYGYRYEFADKDVNFPFG 700
 Db 550 WGDVSPSGKLVYTTAK-----SPNDYNTRIYSGSDSFSEGLFDYKHFPDANITPREYEG 605
 QY 701 HGLSTYFAFSNLSV--SHKDGK-----LSVLSVKNKGTSYPGAQVNO 741
 Db 606 YGLSTYKNTYRLSLVSTAKSGPATGAVVPGSPDLFQUNAVATVVDIANSQVTTGAEVAO 665
 QY 742 LYVK-PIQAKINRPVKELGFAVELQPGETAVTIEBQEKYVAAPDERDQVCYEG 800
 Db 666 LYITPSSAPR--TPPKOLRGFAKLNTLPQSGTATFNIRRD--SYMDTASQKMYPPSG 722
 QY 801 DYEVIYSDS 810
 Db 723 SFGISVQASS 732

RESULT 9

US-08-981-446B-3

Sequence 3, Application US/08981446B

Patent No. 6300112

GENERAL INFORMATION:

APPLICANT: TITLE OF INVENTION: No. 6300112el beta-xylosidase, nucleotide sequence

TITLE OF INVENTION: encoding it, and use thereof

NUMBER OF SEQUENCES: 3

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/981,446B

FILING DATE:

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 804 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

ORGANISM: Aspergillus niger (CBS 120.49)

STRAIN: NM147

FEATURE:

NAME/KEY: sig-peptide

LOCATION: 1..26

US-08-981-446B-3

Query Match

Best Local Similarity 22.2%; Pred. No. 1.7e-33;

Matches 200; Conservative 131; Mismatches 276; Indels 293; Gaps 36;

QY 22 LAGIDFMTKALPKHGVPSLRFTDGPNGVGTFFNGVPAACPPCSTSLGTFNOLLEE 81
 Db 107 LPAYQW-SEAL--HGLDRANFSD-----SGAYNW--ATSPQDILTTAALNRLHQ 154
 QY 82 AGKMGKRAIA-----KSAHVILGPTINMQRSPILGGRFESIGEDPFLAGLAALIRGI 136

Db 155 IASTISOGRAFNNAGRGYGLDYAPAPNINTFRHPVWGSGOETPGEDVSLAAVAYEYITGI 214
 QY 137 Q-----STGVQATITHEFLCNDQED-----RRMWSIYERALARIELALPCJAVRDSOP 186
 Db 215 QGPDPSNLIKLAATFAHYAGYDIENHNHNSRLGNDMNITIQODLSEYTPQFIVARDAKV 274
 QY 187 GAFPTANGINGVSCSENPYLDGMLRKEMGW--DGLIMSDWYGYI-----230
 Db 275 QSVWCATNANVGNPACADSYFLQTLRDTEGFVDHGYVSSDDAANINYPHVASSOAA 334
 QY 231 STTEAVVAGLDLEPGPPRFGTETLKNVNSNGKPFIVHIDQAREVLOPKKCAAGYTE 290
 Db 335 AAAPAILLAGTIDIC-----GTYOMHINES-----IAAGDLSRDEQGVIRLYTTVOA 384
 QY 291 N--GPEVTYNTP-----ETAA--TLRKVNEGIVLLKENNVLPISKKKTLIV 336
 Db 385 GYFDSNTTKANNPRDLISMSDVLEETDAMNISTYQAAGIYLLKNSNVLPLEK-----438
 QY 337 GPNKQATYHGGGSNALRAYAVATPFDGLSKOLETPPSYVGAITYVPPILBQCLTPDG 396
 Db 439 -----AY-----PPSNTTVA-----LIGP-----452
 QY 437 APGRKRVFNEPPTGPNRQHIDELFTKIDMHLVDYHPKADTYWADMEGTYTADEDCI 456
 Db 453 -----WA-----ATRETG--RINLYKN 507
 QY 457 YELGLVCGTAKAVYDDQLVVDNATKOVPGDAFGS-----NATTOILGN--YGNAPYMI 491
 Db 455 -----NATTOILGN--YGNAPYMI-----SFAALISAQSVIYIAGG 519
 QY 508 TYKRIEFGSAFTYTLKGDITVPGHSLRYGGCKAVIDDQAEIKESVALAKEHDQVILICAG 567
 Db 492 -----GISSTSP-----SFAALISAQSVIYIAGG 519
 QY 568 LNADETEGADRASKMLPGVLDLIADVA--AANPTVVVMOTGPPEMPMIDAT-----620
 Db 520 IDNTELEALDRESIANGNOLDLQKLSAAGKKPLIVLQMGCGQ--YDSSSLKNT 575
 QY 621 --PAYIOAWYGNTEGNSIADVFGDYPGSKL--SLSP--KRIDNPAF--LNFTEGRT 675
 Db 576 NVSALLMGYVPOSGGFALRDLITTKNPPAGRLVYTOYPASIAEFPATDMNLRPE-----631
 QY 676 LVGEDVYGYRYEFADKDVNPPFGHSLYTTFAFSNLSVSHKDGKLSV-----724
 Db 632 --GDNFGQITKMY--TGNAVYEPHGLFYTTFASSSNTTKKVKLNIQDLSOTHEDL 686
 QY 725 -----SLSYKNKGSVPGAQVQOLYKPPLOAKINRPVKELGFAFV--ELQPGT 772
 Db 687 ASITQLPVINFTANIRNTGKLESDDYAMVFANTSDAGAPYPPKWLVGMDRKGKYGGET 746
 QY 773 KAVTIEQEKYVAAYFDEERDQVCYEGDYEVISDSSAAKDGVALLRGFTYGETYMWG 832
 Db 747 RELRVEVEGSEFARV--NEDGDVYVFPFGIFELALNLERVRYKVVLEGBEEV--VLKMPG 802

RESULT 10

US-08-386-727-6

Sequence 6, Application US/08386727

Patent No. 5792647

GENERAL INFORMATION:

APPLICANT: ROSEMAN, SAUL

APPLICANT: BASSEMAN, BONNIE

APPLICANT: KEYHANT, NEMAT O.

APPLICANT: CHITLARU, EDITH

APPLICANT: ROWE, CHRIS

APPLICANT: YU, CHARLES

TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESSES:

ADDRESSEE: CUSHMAN, DARBY & CUSHMAN

STREET: 1100 NEW YORK AVENUE, N.W.

CITY: WASHINGTON

STATE: D.C.

COUNTRY: USA
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/386,727
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: HOBBS, ANN S.
 REGISTRATION NUMBER: 36,830
 REFERENCE/DOCKET NUMBER: 4130/206916
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-861-3000
 TELEFAX: 202-822-0944
 TELEX: 6714627 CUSH
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 328 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-386-727-6

Query Match 3.0%; Score 132.5; DB 1; Length 328;
 Best Local Similarity 23.4%; Pred. No. 0.00022;

Matches 62; Conservative 37; Mismatches 103; Indels 63; Gaps 9;

QY 65 PCGSLGTFNQTLLEBAGKMGKEAIKSAHVILGPTIN--MQNSPLGGGFESIGED 121
 DB 78 PCAQLYARSDNGTGLAEDGWLMAELIADHIDLSFAPYLDKGFDCRAIGNRAF--GDD 134
 QY 122 PFLAGLAAALINGISTGVQATIKHF-----LCNDQEDRRMVOSIVTERALR 170
 DB 135 VQVLYTSSAYMRGMSVGMATTKGHPGHGAVIADSHLETPEYDERDSIADDMTIFRAOI 194
 QY 171 EIVALPQIVR-----DSQPGAFMTAVNGINGVSCSENPXYLDGMLRKENGWGGLIMS 224
 DB 195 EAGILDMMPAHVIYHYDAQP-----ASGSPYWLKQVLRQELGFGIVFS 240
 QY 225 DWGTGSTEAVVAGLDLEMPGPPRFGETLKFVNSNGKPFTHVIDORAREVLQVKKCA 284
 DB 241 D-----DLSMEGAALINGGPAERAOQS-----LDAGCDVLMCKRKES 277
 QY 285 ASGVTENGPEPTVNNTPETALIRK 309
 DB 278 AVAVLDQLPISV--PQASLSLKQ 299

RESULT 11

US-08-600-452A-6

; Sequence 6, Application US/08600452A

; Patent No. 5985644

; GENERAL INFORMATION:

; APPLICANT: ROSEMAN, SAUL

; APPLICANT: BASSLER, BONNIE

; APPLICANT: KEYHANT, NEMAT O.

; APPLICANT: CHITLARI, EDITH

; APPLICANT: ROME, CHARLES

; APPLICANT: YU, CHARLES

; TITLE OF INVENTION: BACTERIAL CATABOLISM OF CHITIN

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FISH & RICHARDSON P.C.

; STREET: 4225 Executive Square, Suite 1400

; CITY: La Jolla

; STATE: CA

; COUNTRY: USA

; ZIP: 92037

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/600,452A
 FILING DATE: 13-FEB-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Haile, Lisa A.
 REGISTRATION NUMBER: 38,347
 REFERENCE/DOCKET NUMBER: 07662/005001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 678-5070
 TELEFAX: (619) 678-5099
 TELEX:
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 328 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-600-452A-6

Query Match 3.0%; Score 132.5; DB 2; Length 328;
 Best Local Similarity 23.4%; Pred. No. 0.00022;

Matches 62; Conservative 37; Mismatches 103; Indels 63; Gaps 9;

QY 65 PCGSLGTFNQTLLEBAGKMGKEAIKSAHVILGPTIN--MQNSPLGGGFESIGED 121
 DB 78 PCAQLYARSDNGTGLAEDGWLMAELIADHIDLSFAPYLDKGFDCRAIGNRAF--GDD 134
 QY 122 PFLAGLAAALINGISTGVQATIKHF-----LCNDQEDRRMVOSIVTERALR 170
 DB 135 VQVLYTSSAYMRGMSVGMATTKGHPGHGAVIADSHLETPEYDERDSIADDMTIFRAOI 194
 QY 171 EIVALPQIVR-----DSQPGAFMTAVNGINGVSCSENPXYLDGMLRKENGWGGLIMS 224
 DB 195 EAGILDMMPAHVIYHYDAQP-----ASGSPYWLKQVLRQELGFGIVFS 240
 QY 225 DWGTGSTEAVVAGLDLEMPGPPRFGETLKFVNSNGKPFTHVIDORAREVLQVKKCA 284
 DB 241 D-----DLSMEGAALINGGPAERAOQS-----LDAGCDVLMCKRKES 277
 QY 285 ASGVTENGPEPTVNNTPETALIRK 309
 DB 278 AVAVLDQLPISV--PQASLSLKQ 299

RESULT 12

US-09-071-035-458

; Sequence 458, Application US/09071035

; Patent No. 6448043

; GENERAL INFORMATION:

; APPLICANT: Gil H. Choi

; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and polypeptides

; NUMBER OF SEQUENCES: 496

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.

; STREET: 9410 Key West Avenue

; CITY: Rockville

; STATE: Maryland

; COUNTRY: USA

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB storage

; COMPUTER: HP Vectra 486/33

; OPERATING SYSTEM: MSDOS version 6.2

; SOFTWARE: ASCII text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/071,035

```

FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brookes
REGISTRATION NUMBER: 36,373
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 458:
SEQUENCE CHARACTERISTICS:
LENGTH: 2032 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-071-035-458

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```

Query Match 2.9%; Score 128.5; DB 4; Length 2032;
Best Local Similarity 20.0%; Pred. No. 0.015;
Matches 126; Conservative 81; Mismatches 227; Indels 197; Gaps 31;

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QY 227 YGTVS-----TTTAVVAG--LDLEMPGPPRRGELTKRVNSGK-PFIH 267
DB 295 YGTVTISEDGVTFRTNERITSESIDHGDPSLDTHL-----NDSGRGPGDW 341
QY 268 VIDQRAREVLOFYKCAASGVTEGPEPTVNNPTETALLRKVN-----EGIVLKN 320
DB 342 VIDPTQEDL-----PPVPIPIVDFEQIDKQGHEDRTPNSAITWTV 386
QY 321 ENNVLPISKKKTLIVPNNAKQATYHGGSAALRAYAVTPEDLSKOLE---TPPSYTV 377
DB 387 INQAM---KDQT---NPVTETWPTGNTEPKSVKVELVNNLDGTKEVGRELSPPDETYV 439
QY 378 G-----AY-----TTPVPIIGBOCLTPDGAPEMRKRVF-----NEPGETPN 413
DB 440 DKNGNVTIKGDTNKAYRLEVOYTI---DEAVIPDGGGVPRFNHATLSDNNPGLDA 494
QY 414 ROHIDELFTKTMHLVDYHPRKADTWYADMEGTYADEDCYELGLVVCGRAKAYVD 473
DB 495 EAVTATATYKMLDKRNDIDYDEANOEFW-----EINYNVGEQTIIPKQOAVITD 542
QY 474 QLVVNNATKQVPGDAFSGSATREETGR---INLVKGNTRYKFKIEGSAFTYTLKQDTIV 529
DB 543 TM-GDNLTFE-PDSLHLVSYTFDDKNEVVGAEIVGEGKDK-----VVI 584
QY 530 PGHGLR-----VGCGKVIDDOAE---IEKSYALAKEHDQVILICAGLNADMETEGADR 579
DB 585 NGDGSFAIDFLHDVTGAVNKIDYKTKVDGIYBGVAV---NNRDVYVGQHSSEDDGTASQ 641
QY 580 ASMKLPGVLD---OLIVDVAANPNVTVV---MOTGPEEMPWIDATPAVIQAMYGNET 633
DB 642 NIKKMTGAVDYONSTIGTTLAVNONNNTLMENAVITDYEVPVGLTWV----- 689
QY 634 GNSIDVVEGDYNPSSKLSLSPKRLQDNPAFLNFRTEAGRTLYGEDVYVYR-----Y 687
DB 690 -NSL---VVKDTTGAQTLG-----KDFMVEITNNADGE---IGFKVSFIGAY 731
QY 688 YEFADKDVNFPFGSLSTYTFAFSNLSVSKDKGLSVSKNTGSPVGAQVLAOLYKPL 747
DB 732 AKTSD-----AFHITYTTF---FDVTELDANNPALDHRYMTAAIDWTDDEA---GNN 776
QY 748 QAAKINRPYKELGFAKVELQDGEFKATIE 778
DB 777 HHSEDSKPKPLPAFDLNAQKSGVTNAYTKE 807

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RESULT 13
US-09-071-035-462
; Sequence 462, Application US/09071035

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Patent No. 6448043
GENERAL INFORMATION:
APPLICANT: Gil H. Choi
TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 496
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,035
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: A. Anders Brookes
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB369P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 462:
SEQUENCE CHARACTERISTICS:
LENGTH: 2032 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-071-035-462

```

```

Query Match 2.9%; Score 128.5; DB 4; Length 2032;
Best Local Similarity 20.0%; Pred. No. 0.015;
Matches 126; Conservative 81; Mismatches 227; Indels 197; Gaps 31;

```

```

QY 227 YGTVS-----TTTAVVAG--LDLEMPGPPRRGELTKRVNSGK-PFIH 267
DB 295 YGTVTISEDGVTFRTNERITSESIDHGDPSLDTHL-----NDSGRGPGDW 341
QY 268 VIDQRAREVLOFYKCAASGVTEGPEPTVNNPTETALLRKVN-----EGIVLKN 320
DB 342 VIDPTQEDL-----PPVPIPIVDFEQIDKQGHEDRTPNSAITWTV 386
QY 321 ENNVLPISKKKTLIVPNNAKQATYHGGSAALRAYAVTPEDLSKOLE---TPPSYTV 377
DB 387 INQAM---KDQT---NPVTETWPTGNTEPKSVKVELVNNLDGTKEVGRELSPPDETYV 439
QY 378 G-----AY-----TTPVPIIGBOCLTPDGAPEMRKRVF-----NEPGETPN 413
DB 440 DKNGNVTIKGDTNKAYRLEVOYTI---DEAVIPDGGGVPRFNHATLSDNNPGLDA 494
QY 414 ROHIDELFTKTMHLVDYHPRKADTWYADMEGTYADEDCYELGLVVCGRAKAYVD 473
DB 495 EAVTATATYKMLDKRNDIDYDEANOEFW-----EINYNVGEQTIIPKQOAVITD 542
QY 474 QLVVNNATKQVPGDAFSGSATREETGR---INLVKGNTRYKFKIEGSAFTYTLKQDTIV 529
DB 543 TM-GDNLTFE-PDSLHLVSYTFDDKNEVVGAEIVGEGKDK-----VVI 584
QY 530 PGHGLR-----VGCGKVIDDOAE---IEKSYALAKEHDQVILICAGLNADMETEGADR 579
DB 585 NGDGSFAIDFLHDVTGAVNKIDYKTKVDGIYBGVAV---NNRDVYVGQHSSEDDGTASQ 641
QY 580 ASMKLPGVLD---OLIVDVAANPNVTVV---MOTGPEEMPWIDATPAVIQAMYGNET 633

```

Db 642 NIKNTGAVDYONSTIGMTLAVNQNMYLMEANVITDTEPEVGLMVP----- 689
Qy 634 GNSIADYVFGDYNPSGKLSLSPFKRLQDNPAFLNFTAGRTLYGEDYVGR-----Y 687
Db 690 -NSL--VVKDITTTGAQLTLG-----KDFWEITRNADGE---TGKVSFIGAY 731
Qy 688 YEPADKDVNEPFGHLSYTFPAFNSLSVSHKDGKLSVLSVKNKGSVPGAOVLAOLYKPL 747
Db 732 AKTSD-----AFHITTYTF---FDVTELDANNPALDHYRNTAIDWTDGA---GNN 776
Qy 748 QAAKINRPVKELKGFAPKVELQDGETKAVTIE 778
Db 777 HHSEDSKPKPKPLPAFDLNAOKSGVYNAVTKE 807

RESULT 14

US-09-071-035-466
; Sequence 466, Application US/09071035
; Patent No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071.035
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders Brookes
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB369P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 466:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2032 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-071-035-466

Query Match 2.9%; Score 128.5; DB 4; Length 2032;
Best Local Similarity 20.0%; Pred. No. 0.015;
Matches 126; Conservative 81; Mismatches 227; Indels 197; Gaps 31;

Qy 227 YGTVS-----TTAAVAG---LDLEMPGPPRRFGELTKNNVSGK--PETH 267
Db 295 YGTVSSEDGTVRFTNERITSSDIGHGFSLDTHL-----NDSGRGPGDW 341
Qy 268 VIDORAREVLOFVKCAASGVTEGPEYVNNPETAALLRKVG-----EGYLLKN 320
Db 342 VIDIPGDEL-----PPVYIPYIPDEQIDKQGHDRPNPSALTWYVD 386
Qy 321 ENNVPLSKKKKTLIVPNNAKQATYHGGSAALRAYAVTPFDGSLKOLE---TPPSYTV 377

Db 387 INQAM-----KDQT---NPVTETWPTGNTFKSVKVELYVNNLDGTIKEVRELSPDDETV 439
Qy 378 G-----AY-----TTPPILGEOCLTPGAPOMRRRV-----NEPQTR 413
Db 440 DKNGNTIKGDYTKAKYLEIQTIT-----DEAVIPDGGDVPKRNHATLTSNNPGLDA 494
Qy 414 ROHIDELFTKTDMLVDYVHPRADTWYADMGGTYTAEDECTYELGLVYCGTAKAYVDD 473
Db 495 EAVTATYAGKMLDKRINDYDEANQEFW-----EINYNGEQTIIPKDQAVIID 542
Qy 474 QLYVDNATKOYPGDAFFGSAFTRETR-----INLVKNGTYKFKIEFGSAPTYTLKGDITV 529
Db 543 TM-GDNLTFE-PSLHLYSVTFPDKGNEVYGAELVGGKDYK-----VVI 584
Qy 530 PGHGSRLR-----VGGCKVTDQAE-----IEKSVALAKEHDYIICAGLNADMETEGAR 579
Db 585 NGDGSFADIDFLHDYTGAVKIDYTKYDGYEGVAV-----NNRVDTGSHSEDDGTASOO 641
Qy 580 ASKRLPGVLD---QLADVAANPNTVVV---MOTGPPEMPLDAPPAVIOAWYGNET 633
Db 642 NIKNTGAVDYONSTIGMTLAVNQNMYLMEANVITDTEPEVGLMVP----- 689
Qy 634 GNSIADYVFGDYNPSGKLSLSPFKRLQDNPAFLNFTAGRTLYGEDYVGR-----Y 687
Db 690 -NSL--VVKDITTTGAQLTLG-----KDFWEITRNADGE---TGKVSFIGAY 731
Qy 688 YEPADKDVNEPFGHLSYTFPAFNSLSVSHKDGKLSVLSVKNKGSVPGAOVLAOLYKPL 747
Db 732 AKTSD-----AFHITTYTF---FDVTELDANNPALDHYRNTAIDWTDGA---GNN 776
Qy 748 QAAKINRPVKELKGFAPKVELQDGETKAVTIE 778
Db 777 HHSEDSKPKPKPLPAFDLNAOKSGVYNAVTKE 807

RESULT 15

US-09-071-035-460
; Sequence 460, Application US/09071035
; Patent No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071.035
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders Brookes
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB369P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 460:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 737 amino acids
; TYPE: amino acid

